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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                   |
|   |   |    |   | Application Number       | 10/073,818        |
|   |   |    |   | Filing Date              | February 11, 2002 |
|   |   |    |   | First Named Inventor     | Karandikar, P.    |
|   |   |    |   | Group Art Unit           | 2164              |
| Sheet   | 1 | of | 3 | Examiner Name            |                   |
|   |   |    |   | Attorney Docket Number   | M-102-A           |

| U.S. PATENT DOCUMENTS |                       |                      |                        |   |  |   |
|-----------------------|-----------------------|----------------------|------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                        | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> |   |  |   |
| 7/                    |                       | 3,622,283            |                        | Sara  | 11-23-1971                                       |   |
|                       |                       | 3,766,000            |                        | Gibson et al.                                   | 10-16-1973                                       |   |
|                       |                       | 3,807,996            |                        | Sara  | 04-30-1974                                       |   |
|                       |                       | 3,994,867            |                        | Baughman et al.                                 | 11-30-1976                                       |   |
|                       |                       | 4,005,183            |                        | Singer  | 01-25-1977                                       |   |
|                       |                       | 4,083,719            |                        | Arakawa et al.                                  | 04-11-1978                                       |   |
|                       |                       | 4,157,409            |                        | Levitt et al.                                   | 06-5-1979  |   |
|                       |                       | 4,376,803            |                        | Katzman   | 03-15-1983                                       |   |
|                       |                       | 4,451,118            |                        | Stalcup et al.                                  | 05-29-1984                                       |   |
|                       |                       | 4,535,035            |                        | Smialek, et al.                                 | 08-13-1985                                       |   |
|                       |                       | 4,791,076            |                        | Leggett, deceased, et al.                       | 12-13-1988                                       |   |
|                       |                       | 4,804,586            |                        | Tanaka et al.                                   | 02-14-1989                                       |   |
|                       |                       | 4,944,904            |                        | Singh et al.                                    | 07-31-1990                                       |   |
|                       |                       | 5,015,540            |                        | Borom   | 05-14-1991                                       |   |
|                       |                       | 5,330,807            |                        | Williams  | 07-19-1994                                       |   |
| H                     |                       | 5,834,115            |                        | Weeks, Jr. et al.                               | 11-10-1998                                       |   |
|                       |                       | 5,993,934            |                        | Reese et al.                                    | 11-30-1999                                       |   |
|                       |                       |                      |                        |   |  |   |
|                       |                       |                      |                        |   |  |   |
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| FOREIGN PATENT DOCUMENTS  |                       |                         |                     |                        |   |   |  |                |
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|   |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> |   |   |  |                |
|  |                       | DE                      | 197 11 831          | A1                     | Daimler-Benz                                    | 09-24-1998  |  | V              |
|   |                       | EP                      | 1,124,074           |                        | Brembo  | 08-16-2001  |  |                |
|   |                       |                         |                     |                        |   |   |  |                |
|   |                       |                         |                     |                        |   |   |  |                |
|   |                       |                         |                     |                        |   |   |  |                |

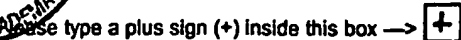
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|---|-------------|---|
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|   |             |   |
|   |             | "BP Amoco Chemicals – Carbon Fibers", selected pages (9) from website<br><a href="http://www.bpamococarbonfibers.com">www.bpamococarbonfibers.com</a> , Copyright 2000 BP Amoco plc.  |
|   |             | Max L. Lake, "Diamond Fibers for Heat Sinks*Diamond Fibers for Thermal Energy Management", 1991 BMDO Phase I SBIR Award (abstract only)   |
|   |             | William E. Davis, "Affordable, High Performance Composites", 1996 Air Force Phase II SBIR Award (abstract only)   |
|   |             | Mark J. Montesano, "Thermal Management for Advanced 3D Packaging of Payload Electronics", 1999 Air Force Phase I SBIR Award (abstract only)   |
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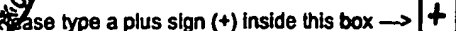
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